

Title (en)

Cardboard cylinder for a heat-sensitive transfer image-receiving sheet, rolled heat-sensitive transfer image-receiving sheet to form a roll shape, and image-forming method

Title (de)

Kartonzylinder für ein hitzeempfindliches Übertragungsbildaufnahmefolienblatt, gerolltes hitzeempfindliches Übertragungsbildaufnahmefolienblatt zur Formung einer Rollenform und Bilderzeugungsverfahren

Title (fr)

Cylindre de carton pour feuille à réception d'image de transfert thermosensible, feuille à réception d'image de transfert thermosensible roulé pour former un rouleau, et procédé de formation d'image

Publication

**EP 1985457 A2 20081029 (EN)**

Application

**EP 08008069 A 20080425**

Priority

JP 2007115677 A 20070425

Abstract (en)

A cardboard cylinder for winding a heat-sensitive transfer image-receiving sheet having a receptive layer on one surface of a support around the cardboard cylinder, wherein an innermost surface of the cardboard cylinder is composed of a layer containing a polyolefin resin having a number average molecular weight of 12,000 or more in a proportion of at least 80% by mass based on the layer.

IPC 8 full level

**B41J 15/02** (2006.01); **B41J 2/325** (2006.01)

CPC (source: EP US)

**B41J 2/325** (2013.01 - EP US); **B41J 15/02** (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP US); **Y10S 428/914** (2013.01 - EP US);  
**Y10T 428/1303** (2015.01 - EP US); **Y10T 428/1352** (2015.01 - EP US); **Y10T 428/1393** (2015.01 - EP US); **Y10T 428/31899** (2015.04 - EP US);  
**Y10T 428/31902** (2015.04 - EP US)

Citation (applicant)

- JP S62110997 A 19870522 - SOMAR CORP
- JP H05116851 A 19930514 - KANZAKI PAPER MFG CO LTD
- JP H0723765 A 19950127 - ZUSHI REIZO
- JP 3585585 B2 20041104
- JP 2005088545 A 20050407 - DAINIPPON PRINTING CO LTD
- JP H04296595 A 19921020 - SONY CORP
- JP 2002264543 A 20020918 - DAINIPPON PRINTING CO LTD
- JP S57169370 A 19821019 - TOKYO SHIBAURA ELECTRIC CO
- JP S57207250 A 19821218 - FUJI PHOTO FILM CO LTD
- JP S6025793 A 19850208 - DAINIPPON PRINTING CO LTD
- JP H05238167 A 19930917 - EASTMAN KODAK CO
- US 4695286 A 19870922 - VANIER NOEL R [US], et al
- US 4927803 A 19900522 - BAILEY DAVID B [US], et al
- JP H06227160 A 19940816 - EASTMAN KODAK CO
- JP H06227161 A 19940816 - EASTMAN KODAK CO
- JP H06155933 A 19940603 - EASTMAN KODAK CO
- JP H0839942 A 19960213 - EASTMAN KODAK CO
- JP S64538 A 19890105 - FUJI PHOTO FILM CO LTD
- JP 2004361936 A 20041224 - FUJI PHOTO FILM CO LTD
- JP H07179075 A 19950718 - EASTMAN KODAK CO
- JP H08108636 A 19960430 - DAINIPPON PRINTING CO LTD
- JP 3585599 B2 20041104
- JP 2925244 B2 19990728
- JP S61110135 A 19860528 - FUJI PHOTO FILM CO LTD
- JP H06202295 A 19940722 - FUJI PHOTO FILM CO LTD
- JP S59101395 A 19840611 - MATSUSHITA ELECTRIC IND CO LTD
- JP S637971 A 19880113 - DAINIPPON PRINTING CO LTD
- JP S637972 A 19880113 - DAINIPPON PRINTING CO LTD
- JP S637973 A 19880113 - DAINIPPON PRINTING CO LTD
- JP S62152897 A 19870707 - SONY CHEMICALS
- JP 2004106283 A 20040408 - DAINIPPON PRINTING CO LTD
- JP 2004181888 A 20040702 - DAINIPPON PRINTING CO LTD
- JP 2004345267 A 20041209 - DAINIPPON PRINTING CO LTD
- US 2761791 A 19560904 - RUSSELL THEODORE A
- US 2681234 A 19540615 - LEE ARTHUR L
- US 3508947 A 19700428 - HUGHES DONALD J
- US 4457256 A 19840703 - KISLER SEMYON [US], et al
- US 3993019 A 19761123 - JACKSON BRIAN W
- JP S6354975 A 19880309 - FUJI PHOTO FILM CO LTD
- JP S61278848 A 19861209 - FUJI PHOTO FILM CO LTD
- JP S5586557 A 19800630 - FUJI PHOTO FILM CO LTD
- JP S5231727 A 19770310 - FUJI PHOTO FILM CO LTD
- JP S55142565 A 19801107 - FUJI PHOTO FILM CO LTD
- JP S5043140 A 19750418
- JP S6380872 A 19880411 - FUJI PHOTO FILM CO LTD
- JP S5454020 A 19790427 - FUJI PHOTO FILM CO LTD
- JP H05104061 A 19930427 - FUJI PHOTO FILM CO LTD
- JP H05127305 A 19930525 - FUJI PHOTO FILM CO LTD

- JP S497050 B1 19740218
- US 4757046 A 19880712 - BYERS GARY W [US], et al
- US 3770370 A 19731106 - WEAVER M, et al
- DE 2316755 A1 19741017 - KALK CHEMISCHE FABRIK GMBH
- JP 2004051873 A 20040219 - MITSUI CHEMICALS INC
- JP H07137455 A 19950530 - KONISHIROKU PHOTO IND
- JP S6131292 A 19860213 - MITSUBISHI CHEM IND
- JP 2006021333 A 20060126 - GEN CO LTD
- JP 3450339 B2 20030922
- JP S4830492 B1 19730920
- JP S5536984 B1 19800925
- JP 3610466 B2 20050112
- JP S485496 B1
- JP S463335 A 19711028
- JP S58214152 A 19831213 - KONISHIROKU PHOTO IND
- JP S58221844 A 19831223 - KONISHIROKU PHOTO IND
- JP S4710537 A
- JP S5919945 A 19840201 - FUJI PHOTO FILM CO LTD
- JP S6353544 A 19880307 - KONISHIROKU PHOTO IND
- JP S5156620 A 19760518 - EASTMAN KODAK CO
- JP S53128333 A 19781109 - FUJI PHOTO FILM CO LTD
- JP S58181040 A 19831022 - FUJI PHOTO FILM CO LTD
- JP H06211813 A 19940802 - CIBA GEIGY AG
- JP H07258228 A 19951009 - CIBA GEIGY AG
- JP H08239368 A 19960917 - CIBA GEIGY AG
- JP H0853427 A 19960227 - CIBA GEIGY AG
- JP H10115898 A 19980506 - CIBA GEIGY AG
- JP H10147577 A 19980602 - CIBA GEIGY AG
- JP H10182621 A 19980707 - CIBA GEIGY AG
- JP H08501291 A 19960213
- US 3754919 A 19730828 - SOBEL J, et al
- US 4220711 A 19800902 - MITSUI AKIO [JP], et al
- US 2719086 A 19550927 - SAWDEY GEORGE W, et al
- US 3698707 A 19721017 - LUCAS RAYMOND L R
- US 3707375 A 19721226 - OHI REIICHI, et al
- US 5298380 A 19940329 - LEPPARD DAVID G [CH]
- US 5500332 A 19960319 - VISHWAKARMA LAL C [US], et al
- US 5585228 A 19961217 - VISHWAKARMA LAL C [US], et al
- US 5814438 A 19980929 - VISHWAKARMA LAL C [US], et al
- GB 1198337 A 19700708 - AGFA GEVAERT AG [DE]
- EP 0323408 A1 19890705 - CIBA GEIGY AG [CH]
- EP 0520938 A1 19921230 - CIBA GEIGY AG [CH]
- EP 0521823 A1 19930107 - CIBA GEIGY AG [CH]
- EP 0531258 A1 19930310 - CIBA GEIGY AG [CH]
- EP 0530135 A1 19930303 - CIBA GEIGY AG [CH]
- "Joho Kiroku (Hard Copy) to Sono Zairyō no Shintenki (Information Recording (Hard Copy) and New Development of Recording Materials", 1993, TORAY RESEARCH CENTER INC., pages: 241 - 285
- "Printer Zairyō no Kaihatsu (Development of Printer Materials", 1995, CMC PUBLISHING CO., LTD., pages: 180
- JIRO SHIOKAWA: "Kirk Othmer Kagaku Daijiten", 1988, MARUZEN, pages: 1453
- TAIRA OKUDA; HIROSHI INAGAKI, GOSEI JUSHI EMULSION (SYNTHETIC RESIN EMULSION, 1978
- TAKAAKI SUGIMURA ET AL., GOSEI LATEX NO OYO (APPLICATION OF SYNTHETIC LATEX, 1993
- SOICHI MUROI, GOSEI LATEX NO KAGAKU (CHEMISTRY OF SYNTHETIC LATEX, 1970
- "Suisei Coating-Zairyō no Kaihatsu to Oyo (Development and Application of Aqueous Coating Material", 2004, CMC PUBLISHING CO., LTD.
- SOUTICHI MUROI, GOSEI LATEX NO KAGAKU (CHEMISTRY OF SYNTHETIC LATEX, 1970
- J. BRANDRUP; E. H. IMMERGUT: "Polymer Handbook", 1989, WILEY-INTERSCIENCE
- "Kagaku Daijiten (ENCYCLOPEDIA CHIMICA", KYORITSU SHUPPAN CO., LTD.
- "Encyclopedia of Polymer Science and Engineering", vol. 3, 1985, JOHN WILEY, pages: 563
- EDGAR B. GUTOFF ET AL.: "Coating and Drying Defects: Troubleshooting Operating Problem", 1995, JOHN WILEY & SONS COMPANY, pages: 101 - 103

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1985457 A2 20081029; EP 1985457 A3 20110216; EP 1985457 B1 20120620;** JP 2008273641 A 20081113; US 2008269048 A1 20081030; US 8067336 B2 20111129

DOCDB simple family (application)

**EP 08008069 A 20080425;** JP 2007115677 A 20070425; US 10790908 A 20080423